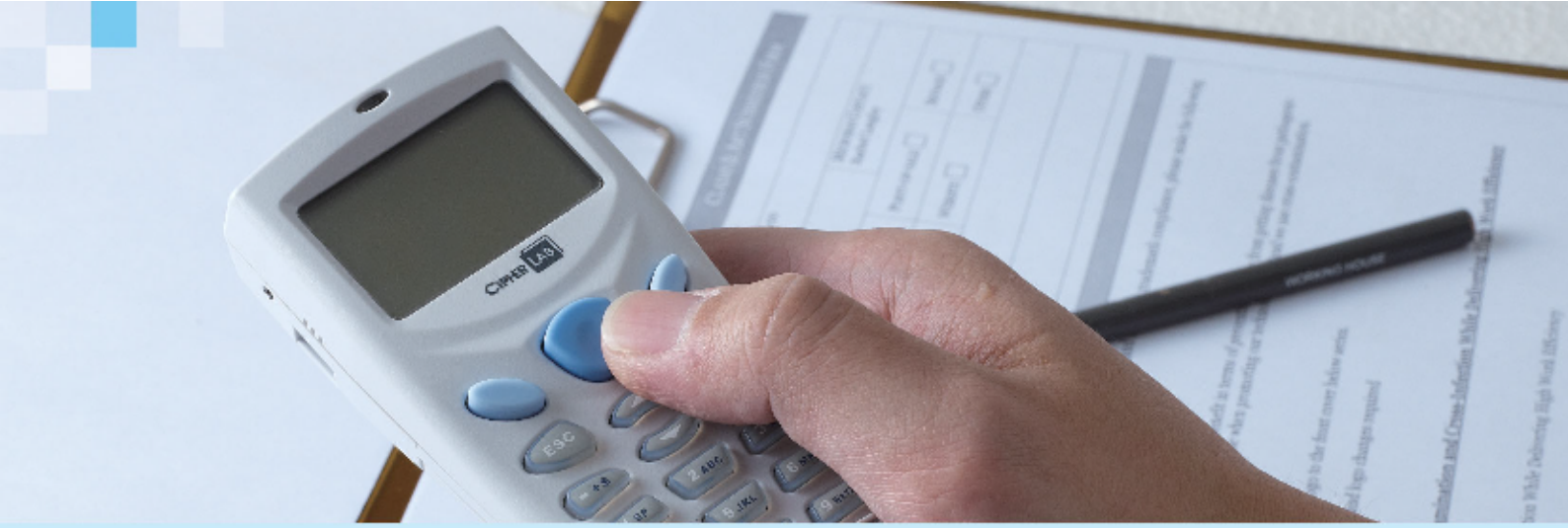
CIPHER LAB
Medical

Pal of vital signs*

Evolving Solutions for acquiring Vital Signs

Patent Pending*



As we may know in medical facilities, care-givers normally record patients' vital signs using pen and paper, then go back to their station and input the information into the hospital information system (HIS) so that the latest data can be updated. Although this has been the normal practice for years, "handwriting errors" come along with it from time to time, and thus it can leave the hospitals and care-givers themselves open to medical malpractice suits.

To solve this issue and also catch up with the upcoming E-Healthcare evolution, " Pal of vital signs " has been developed. Consisting of a mobile computer and Clever Chek's BT equipped Blood pressure and Glucose meter as well as ear thermometer, "Pal of vital signs" is just the solution you need. Readings from both devices once achieved are immediately and securely sent to the mobile computer using BT.

The data stored in the mobile computer is then transmitted to the HIS system complete, quickly and accurately without "handwriting errors".

Data Transmission to Backend

Compact, programmable mobile computer Cipherlab 8062H/8230 assit you in many aspects.

Upload data using BT with Clever Chek Blood pressure/Glucose and ear thermometer.

Data Collection Flow

Scan Wrist Band or ID card of the patient and care-giver.

Acquire Vital signs, such as Temperature, Blood pressure, Blood Glucose and Heart Beat.

The Vital signs data will be sent to the mobile computer via BT and then from the mobile computer to the backend via WLAN, Ether-net, Modem or GPRS.

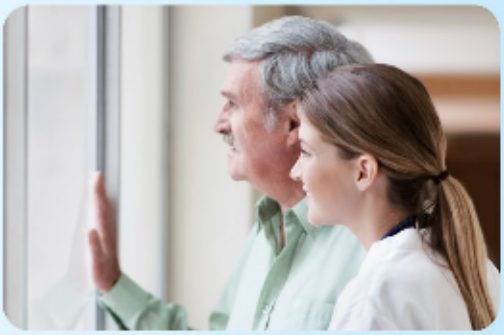
Typical Application

Point of Care

"Preventing medical malpractice" is always a critical topic among all medical professionals which has been identified as one of the biggest issues in the healthcare environment. With advanced technology, many hospitals have started to adopt mobile devices in executing medication administration.

Evolving.....

With "Pal of vital signs", the care-givers not only cover the basic "5 Rights", i.e. Right patient; Right drug; Right dose; Right route; and Right time; when executing medication but also acquire all related vital signs such as body temperature, pulse, blood pressure and blood glucose. You can get up-to-date records from a patient with a single press of a button.



Nursing Home

Still use pen and paper to do the billing and data recording in nursing home? Handwriting might come with human errors, and large amounts of paper work also cause unnecessary time wasting.

Evolving.....

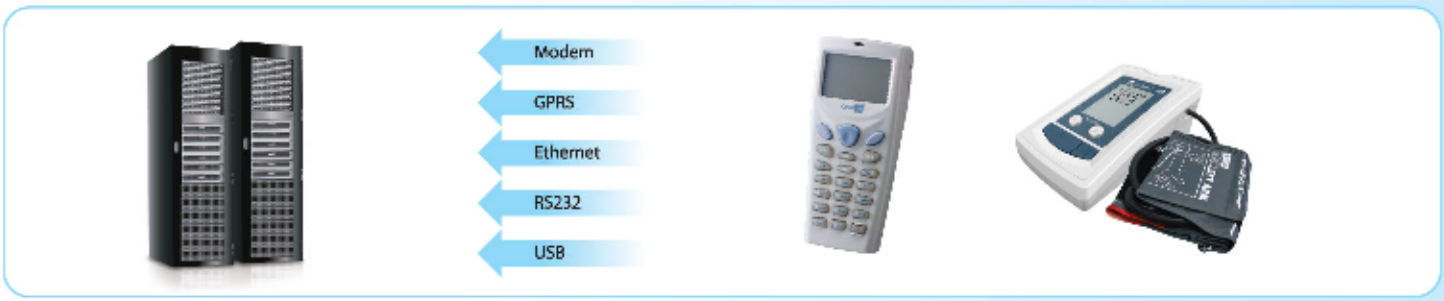
With "Pal of vital signs", all the patients' information and vital signs data can be easily recorded. Also, the care-givers can offer better treatments to patients based on the up-to-date data from the patient's information system. Moreover, the vital signs data can be sent to patients' relatives from time to time, so they can be updated and monitor the patients' statuses as well.

Telehealthcare

With the advanced healthcare and low birth rate, the aging society is coming and thus "telehealthcare" has become a popular tendency in recent years. However, the biggest problem still lies with "how to collect the data from each patient?"

Evolving.....

Using BT, the vital signs can be collected by mobile devices, and then sent to a mobile computer. With the compact and powerful mobile computer, all the data can be sent to the back-end system through many forms of communications such as: GPRS; Wi-Fi; Ethernet; RS232; USB or even Modem. Easy implementation for customers as well as saving time and money!



About Cipherlab Medical

As a member of Cipherlab group, a world leader in AIDC solutions for a wide range of industries, Cipherlab Medical has profound experience in research & development, manufacturing, channel sales and marketing. Cipherlab Medical is committed as a professional medical integration service provider bringing our customer innovative solutions.

		8062H	8230
Performance	CPU	16-bit	32-bit
	Program memory	2MB Flash	8MB Flash
	Data memory	2MB SRAM	4MB/8MB SRAM
	Expansion	-	micro SD slot with SDHC support
	Operating power	Rechargeable 3.7V 700 mAh Li-ion battery	Rechargeable 3.7V 1200 mAh Li-ion battery
	Working hours*1	36 hours	20 hours*2
	Data retention	30 days	25 days
	Alert	Dual-color LED, volume-programmable beeper	Dual-color LEDs (red/green, blue/green),
Wireless communication	WLAN	-	IEEE802.11 b/g
	WLAN security	-	WEP, EAP, WPA (PSK), WPA2 (TKIP, AES, PSK)
	WPAN	BT V2.1 +EDR class2	BT V2.1+EDR class 2
	BT profile	SPP,DUN,HID	SPP,DUN,HID,Headset, FTP
Data capture	Barcode scanning	Linear imager/ Laser	Linear imager/ Laser / 2D imager
Physical characteristics	Display	100 X 64 pixels, with LED backlight	2.1" 160x160 pixels, white LED backlight
	Keypad	21 rubber keys, white LED backlight	24 keys, white LED backlight
	Size (LxWxH)	122 x 56 x 32mm (4.8 x 2.2 x 1.25 in)	"136 x 58 x 25mm (Linear imager) / 136 x 58 x 32 mm (Laser/2D)"
	"Weight (laser including battery)"	125g/ 4.4 oz.	150g/ 5.3 oz.
User environment	Operating temperature	-10° to 60° C/ 14° to 140° F	-10° to 55° C/ 14° to 131° F
	Storage temperature	-20° to 70° C / -4° to 158° F	
	"Humidity (non-condensed)"	Storage 5% to 95% / Operating 10% to 90%	
	Impact resistance	Multiple 1.2m/4 ft. drop onto concrete, 5 drops on each side	Multiple 1.2m/4 ft. drop onto concrete, 5 drops on each side/ IP52
	Electrostatic discharge	± 15kV air discharge/ ± 8kV direct discharge	
	EMC regulation	FCC,CE	FCC,IC,CE,C-tick,SRRC,CCC,BSMI,NCC,TELEC
Development support		BLAZE C Compiler and BASIC Compiler	
Application software		FORGE Application Generator including data transmission OCX, STREAM Wireless Studio, MIRROR Terminal Emulator	
Cradles		Charging and communication cradle, Ethernet cradle, Modem cradle, GPRS cradle (quad band)	Charging and communication cradle, Ethernet cradle
Accessories		4-slot battery charger, USB cable, RS232 cable	Protective cover,Pistol grip, USB cable, RS232 cable
Warranty		1 year	

1. Based on one standard laser scan per five seconds with backlight off 2. BT off/IEEE 802.11b/g on. The test is based on one broadcasting packet per second.

TD-1261F

Temperature measurement sites	Ear temperature
Temperature Range	32°C ~ 43°C
Accuracy	±0.2 °C (±0.4 °F) for the measurement at 36.0°C ~ 39.0°C(96.8°F ~ 102.2°F)
	0.3°C (±0.5 °F) outside the above temperature range
Display Resolution	0.1°C or 0.1°F
Temperature Unit	°C or °F
Backlight screen	Equipped (Three-color backlight)
Fever / over range	Equipped
Night light	10
Power saving	2*1.5V AAA
Battery life	1000 measurements
Demension	160.5mm (W) x 45.9mm (H) x 32.5mm (D)
Data Transmission	Bluetooth (SPP)
Weight	110 g (with battery)

TD-3250C

BG Result Range	20 ~ 600 mg/dL
Hematocrit Range	20 - 60%
BP result range	0 ~ 300 mmHg
Heart rate result reange	40 ~ 199 beats / min
Ketone warning	Yes
Code setting	Code strip
Memory capacity	352
Unit	mg/dL or mmol/dL
Power source	4*1.5V AA
Data output	Bluetooth
Dimension	136 L / 92 W / 56 H (mm)
Weight	250g without Battery
Display	LCD (38.0 x 52.5 mm)

8062H

8230

TD-1261F

TD-3250C

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